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calculating the cross-correlation value between the stored training sequence and the training sequence of the received signal, which is obtained by shifting a synchronization point of the received signal for one symbol sequence at least one of forwards or backwards from the ideal synchronization point.

3. (Amended) The method of claim 1, wherein the received signal is a complex signal, whereby at least one cross-correlation value to be determined is a complex cross-correlation value.

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4. (Amended) The method of claim 3, wherein determining at least one cross-correlation value is performed for a given number of training sequences of the received signal, and the method further comprises:

calculating an absolute value of an average of the determined cross-correlation values;  
selecting the first detector for the detection of the signal to be received if the absolute value of the average of the cross-correlation values exceeds a preset limit value; and  
selecting the second detector if the absolute value of the average of the cross-correlation values is below a preset limit value.

5. (Amended) The method of claim 3, wherein the first detector includes a channel equalizer.

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6. (Amended) A receiver comprising:  
a first and a second modulation detector;  
means for determining at least one cross-correlation value between at least one training sequence of a received signal and a stored training sequence; and  
means for selecting a detector used for detection of a signal to be received based on the determined at least one cross-correlation value.

7. (Amended) The receiver of claim 6, wherein the means for determining at least one cross-correlation value is configured to search for an ideal synchronization point of the received signal, at which point the cross-correlation between the training sequence of the received signal and the stored training sequence has a maximum value, and to calculate the cross-correlation value between the stored training sequence and the training sequence of the received signal, which is obtained by shifting a synchronization point of the received signal

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for one symbol sequence at least one of forwards or backwards from the ideal synchronization point.

8. (Amended) The receiver of claim 6, wherein the received signal is a complex signal, whereby at least one cross-correlation value to be determined is a complex cross-correlation value.

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9. (Amended) The receiver of claim 8, further comprising:  
means for collecting a predetermined number of cross-correlation values determined from the training sequences of the received signal; and  
means for calculating an absolute value of an average of the determined cross-correlation values,  
wherein the means for selecting the first detector for the detection of the signal to be received if the absolute value of the average of the cross-correlation values exceeds a preset limit value, and configured to select the second detector if the absolute value of the average of the cross-correlation values is below the preset limit value.

10. (Amended) The receiver of claim 8, wherein the first detector includes a channel equalizer.

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See the attached Appendix for the changes made to effect the above claims.

Please add the following new claims 11-15.

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--11. A receiver comprising:  
a first and a second modulation detector configured to detect a received signal;  
determination module configured to determine at least one cross-correlation value between at least one training sequence of a received signal and a stored training sequence; and  
a first selector configured to select between the first and second modulation detectors, wherein the first and second modulation detectors are configured to detect the received signal based on the determined at least one cross-correlation value.--

--12. The receiver of claim 11, wherein the determination module comprises:

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a searcher configured to search for an ideal synchronization point of the received signal, at which point the cross-correlation between the training sequence of the received signal and the stored training sequence has a maximum value; and

a first calculator configured to calculate the cross-correlation value between the stored training sequence and the training sequence of the received signal, which is obtained by shifting a synchronization point of the received signal for one symbol sequence at least one of forwards or backwards from the ideal synchronization point.--

--13. The receiver of claim 11, wherein the received signal is a complex signal, whereby at least one cross-correlation value to be determined is a complex cross-correlation value.--

--14. The receiver of claim 13, further comprising:

a collector configured to collect a predetermined number of cross-correlation values determined from the training sequences of the received signal;

a second calculator configured to calculate an absolute value of an average of the determined cross-correlation values,

wherein the selector is configured to select the first detector for the detection of the signal to be received if the absolute value of the average of the cross-correlation values exceeds a preset limit value and configured to select the second detector if the absolute value of the average of the cross-correlation values is below the preset limit value.--

--15. The receiver of claim 13, wherein the first detector includes a channel equalizer.-

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